

Attorney Docket No.: 54704.8022.US01 (UMD-0047)
Inventors: Kenneth Khaw
Serial No.: 10/806,939
Filing Date: March 23, 2004
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This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (canceled).

Claim 2 (new): An apparatus for treating multi-branch vascular lesions comprising:

a selected length of an exitable lumen guide wire sheath;
a stent; and
a balloon catheter.

Claim 3 (new): The apparatus of claim 2 wherein the balloon catheter contains a shaft.

Claim 4 (new): The apparatus of claim 2 wherein the selected length of the exitable lumen guidewire sheath is coupled to the balloon catheter shaft.

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Claim 5 (new): The apparatus of claim 2 wherein a portion of the selected length of the exitable lumen guide wire sheath is inserted through a portion of the stent.

Claim 6 (new): The apparatus of claim 5 wherein the stent has been predilated to accept the portion of the selected length of the exitable lumen guide wire sheath and then crimped to capture the portion of the selected length of exitable lumen guide wire sheath in the stent.

Claim 7 (new): A method for treating a multiple branch lesion comprising the steps of:

gaining access to a major vessel;
inserting a first guide wire toward the multiple branch lesion;
inserting another guide wire for each additional branch to be treated; and
delivering a intra-vascular medical device with a selected length of exitable lumen guide wire sheath.

Claim 8 (new): The method of claim 7 wherein the multiple branch lesion has been pre-identified.

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Claim 9 (new): The method of claim 7 wherein the intra-vascular medical device with a selected length of exitable lumen guide wire sheath is comprised of the selected length of exitable lumen guide wire sheath coupled to the shaft of a balloon catheter and inserted through a portion of a stent on the balloon catheter and the selected length of exitable lumen guide wire sheath.

Claim 10 (new): The method of claim 9 wherein the selected length of exitable lumen sheath may contain a multiple of exitable lumens.

Claim 11 (new): The method of claim 9 wherein the stent is crimped to capture the selected length of exitable lumen guidewire sheath.

Claim 12 (new): The method of claim 7 wherein the intra-vascular medical device with a selected length of exitable lumen is back loaded on to the guide wires and advanced to the multiple branch lesion.

Claim 13 (new): The method of claim 7 wherein the medical devise with the selected length of exitable lumen guidewire sheath

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is positioned at the multiple branch lesion such that the selected length of exitable lumen guidewire sheath enters a desired branch of the multiple branch lesion.